

METHODS OF MANUFACTURE OF ELECTROLYTE TUBES FOR SOLID OXIDE  
DEVICES AND THE DEVICES OBTAINED THEREFROM

ABSTRACT

A method of manufacturing a green electrolyte tube comprises forming a composition comprising lanthanum-strontium-gallium-magnesium oxide powder, a binder, a lubricant, a solvent and a pH control agent into a green electrolyte tube, wherein the outer diameter of the green electrolyte tube has a tolerance of less than or equal to about  $\pm 0.3$  millimeters over a tube length of greater than or equal to about 5 millimeters, and the wall thickness of the green electrolyte tube has a tolerance of less than or equal to about  $\pm 0.2$  millimeters over a length of greater than or equal to about 5 millimeters.